Safety data sheet

1. Product and company identification

Product Name:	tgloy Capsules
Synonyms:	Capsules with mercury and metal powder (alloy)
Application:	Capsules to produce amalgam for dental fillings.
Supplier:	Technical & General Ltd.
	2 Albion Place
	London
	W6 0QT
Issued by:	Technical Department
Telephone No:	+ 44-20-8834 7575
Telefax No:	+ 44-20-8834 7570

2. Composition/information on ingredients

Components Include and Risk Phrases	Cas-No	EG-No	Content (%)	Label	Symbol	TLV
Health and Environmental Hazardous Mercury (Hg) -			50	Toxic	Skull and cross-bones	x
Other Silver (Ag) Tin (Sn) Copper (Cu)			of 50% 45 31 24		-	

3. Hazards identification_____

Physical/chemical hazards: Human health hazards:	Toxic by inhalation. Danger by cumulative effects. May cause sensitization
	by skin contact.
Environmental hazards:	May cause long-term effects in aquatic environment.
4. First-aid measures	
Generally:	
Inhalation:	Fresh air and rest. If you feel unwell, seek medical advice (show the label where possible).
Skin contact:	Wash off skin immediately with soap and water. If irritation appears, seek medical advice.
Eye contact:	Rinse immediately with plenty of water. If reddening/irritation appears, seek medical advice.
Ingestion:	Wash out mouth immediately with water. Thereafter drink a glas of water/milk. If you feel unwell, seek medical advice.

5. Fire-fighting measures_____

Specific Fire Hazards:	No fire or explosion hazards. Mercury may evaporate in fire because of low boiling point. Do not breathe toxic fumes.
Specific methods:	Container near fire should be removed or cooled down with water.
Extinguishing media:	All extinguishing media.
Extinguishing media not usable:	

6. Accidental release measures_____

Personal precautions: Environmental precautions:	
Methods for cleaning up:	Collect spillage with mercury tong or -pipette, place in a tight bottle and cover with water. Cover smaller amounts with metal powder (alloy) and remove. Smaller drops in cracks can be removed with metal foil of zinc, tin or copper which binds mercury.
7. Handling and storage	

Storage: Handling:

8. Exposure controls/personal protection_____

Engineering measures:	Use only well-ventilated areas. Store packaging tightly closed. Avoid
	contact with skin. Avoid amalgam residues in dish-washer and sterilizer.
	Mercury vapour evaporates at elevated temperatures.
Personal protective equipment:	See - Mercury and amalgam in dental hygiene.

9. Physical and chemical properties

Physical state, form and colour: Odour:	Silver-white, liquid metal and met Without smell	al powder in welded sealed disposable capsu	les. Hg data below.
pH:		Boiling point/range (°C):	357
Melting point/range (°C):	-39	Flashpoint (°C):	
		Autoignition temperature (°C):	
Decomposition temperature (°C):		Explosion limits:	
Explosion properties:		Vapour density (air=1):	6,91
Density (20 °C, kg/m ³):	13 600	Vapour pressure (20 °C, mm Hg; kPa)	0,0012; 0,00016
Solubility in water (weight-%):	< 0,001	Octanol/water partition coefficient:	
Solubility in organic solvents:	Insoluble	-	
Specific properties:	TLV 0,05 mg/ m3 (air saturated wi	th mercury att 20 °C contains 13 mg/ m ³).	

10. Stability and reactivity_____

Stability:	Mercury emits vapour, especially when heated.
Decomposition products: Specific properties:	Reacts violently with ammonia, chlorine, chlorine dioxide and
	nithromethane. Forms alloys with most metals, except iron, at ordinary
	temperatures.

11. Toxicological information

Generally: Inhalation:	•	Mercury is absorbed mainly by inhalation of vapour.
Skin contact: Eye contact: Ingestion:	Harmful in contact w	ith skin. May cause sensitization by skin contact.
Toxicity: Specific effects:	Mercury:	LD ₅₀ (oral, rat): 500 mg/kg

12. Ecological information

Generally: Mobility: Persistence/Degradability: Bioaccumulation: Ecotoxicity

No toxicity for fish, daphnia or algae has been found for metallic mercury

13. Disposal considerations

Waste from residues:	Hazardous waste: Collection should be carried out according to local
	community law. Do not empty into drains.
Contaminated packaging:	This material and/or its container must disposed of as hazardous waste.

14. Transport information

UN RID/RID-S, ADR/ADR-S (land)	No: 2809 Class:	Pack Group: 3		
IMDG (sea)	Class: 8	Page: 8191	EmS No: 8-12	MFAG No:
Marine pollutant				
IATA (air)	Class:			
Note:				

15. Regulatory information_____

Label for supply: Symbol:	Toxic Skull and cross-bones
Risk Phrases:	R23 Toxic by inhalation
	R33 Danger by cumulative effects
	R43 May cause sensitization by skin contact
	R53 May cause long-term effects in aquatic environment
Safety Phrases:	S1 Keep locked up
	S7 Keep container tightly closed
	S45 In case of accident or if you feel unwell, seek medical advice
	immediately (show the label where possible).
Note:	Complies with ISO 1559 BS EN 21559(metal powder) and ISO 1560 (mercury).

16. Other information_____

Literature references:

All information is related to the product as supplied and is provided on the understanding that it will be used in the way and for purposes as indicated and that user has taken all necessary precautions. Information contained in the publication is true and accurate to the best of our knowledge.